

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

1.-10. (Canceled)

11. (New) A radar sensor for a motor vehicle, comprising:
a transmitting device; and
a receiving device, wherein transmitting parameters of the transmitting device and receiving parameters of the receiving device are variable.
12. (New) The radar sensor as recited in Claim 11, wherein:
the transmitting parameters include at least one of:
a transmitting frequency, a transmitting capacity, a modulation amplitude, and an azimuthal width of an emitted field.
13. (New) The radar sensor as recited in Claim 11, wherein:
the receiving parameters include at least one of:
a receiving frequency, a receiving sensitivity, and an azimuthal width of a received field.
14. (New) A method for controlling transmitting and receiving parameters of a radar sensor, comprising:
changing at least one of the transmitting parameters and the receiving parameters as a function of a driving condition of the motor vehicle.
15. (New) The method as recited in Claim 14, the driving condition corresponds to at least one of:
at least one of a speed and an assistance function selected by a driver, and
at least one of a position of the motor vehicle and an installation location of the radar sensor.
16. (New) The method as recited in Claim 14, further comprising:
changing a speed resolution of the radar sensor.

17. (New) The method as recited in Claim 14, further comprising:
changing a distance resolution of the radar sensor.
18. (New) The method as recited in Claim 14, further comprising:
changing a width and a shape of an antenna characteristic.
19. (New) The method as recited in Claim 18, wherein the antenna characteristic is
changed by switching elements at a high-frequency level.
20. (New) The method as recited in Claim 18, wherein the antenna characteristic is
changed by digital processing in a baseband.